## CONTENTS OF *FOREST ECOLOGY AND MANAGEMENT* VOLUME 26

### VOL. 26 NO. 1 DECEMBER 1988

Problems and opportunities for forestry within the European community – implications for research and development
J. Kreysa (Brussels, Belgium) and F.T. Last (Edinburgh, Great Britain) ..... 1
Integrated pest control in forest management – combined use of pheromones and insecticides for attracting and killing the bark beetle *Ips typographus*. I. Studies with $^{32}$P-labelled methamidophos in the ascending sap of spruce
W. Dedek and J. Pape (Leipzig, German Democratic Republic) ..... 47
Integrated pest control in forest management – combined use of pheromones and insecticides for attracting and killing the bark beetle *Ips typographus*. II. Effects of methamidophos treatment following bark penetration into the ascending sap of pheromone-baited spruce
W. Dedek, J. Pape (Leipzig, German Democratic Republic), F. Grimmer and H.-J. Körner (Bitterfeld, German Democratic Republic) ..... 63

### VOL. 26 NO. 2 JANUARY 1989

Factors controlling nitrification in soils of early successional and oak/hickory forests in the southern Appalachians
F. Montagnini, B. Haines (Athens, GA, U.S.A.) and W. Swank (Otto, NC, U.S.A.) ..... 77
Nutrient accumulation in and release from the litter layer of karri (*Eucalyptus diversicolor*) forests of southwestern Australia
A.M. O'Connell (Wembley, Australia) ..... 95
Climatic limitations to growth in loblolly and shortleaf pine (*Pinus taeda* and *P. echinata*): A dendroclimatological approach
A.L. Friend (Oak Ridge, TN, U.S.A.) and W.L. Hafley (Raleigh, NC, U.S.A.) ..... 113
Ecosystem concepts and current trends in forest management: time for reappraisal
D.A. Perry (Corvallis, OR, U.S.A.) and J. Maghembe (Nairobi, Kenya) ..... 123

**Short Communication**
Concentration of exchangeable and soluble aluminium in acid forest soils in Greece
G. Nakos (Athens, Greece) ..... 141

**Book Reviews**
Sampling theory ..... 151
Exotic forests ..... 152
Tree crop physiology ..... 153

### VOL. 26 NO. 3 FEBRUARY 1989

Dispersal of natural regeneration in some Piai-invaded areas of mangrove forests in Sarawak
R.R. Jawa (Selangor, Malaysia) and P.B.L. Srivastava (Boroko, Papua New Guinea) ..... 155

## CONTENTS OF *FOREST ECOLOGY AND MANAGEMENT* VOLUME 26

### VOL. 26 NO. 1 DECEMBER 1988

Problems and opportunities for forestry within the European community – implications for research and development
J. Kreysa (Brussels, Belgium) and F.T. Last (Edinburgh, Great Britain) ..... 1
Integrated pest control in forest management – combined use of pheromones and insecticides for attracting and killing the bark beetle *Ips typographus*. I. Studies with $^{32}$P-labelled methamidophos in the ascending sap of spruce
W. Dedek and J. Pape (Leipzig, German Democratic Republic) ..... 47
Integrated pest control in forest management – combined use of pheromones and insecticides for attracting and killing the bark beetle *Ips typographus*. II. Effects of methamidophos treatment following bark penetration into the ascending sap of pheromone-baited spruce
W. Dedek, J. Pape (Leipzig, German Democratic Republic), F. Grimmer and H.-J. Körner (Bitterfeld, German Democratic Republic) ..... 63

### VOL. 26 NO. 2 JANUARY 1989

Factors controlling nitrification in soils of early successional and oak/hickory forests in the southern Appalachians
F. Montagnini, B. Haines (Athens, GA, U.S.A.) and W. Swank (Otto, NC, U.S.A.) ..... 77
Nutrient accumulation in and release from the litter layer of karri (*Eucalyptus diversicolor*) forests of southwestern Australia
A.M. O'Connell (Wembley, Australia) ..... 95
Climatic limitations to growth in loblolly and shortleaf pine (*Pinus taeda* and *P. echinata*): A dendroclimatological approach
A.L. Friend (Oak Ridge, TN, U.S.A.) and W.L. Hafley (Raleigh, NC, U.S.A.) ..... 113
Ecosystem concepts and current trends in forest management: time for reappraisal
D.A. Perry (Corvallis, OR, U.S.A.) and J. Maghembe (Nairobi, Kenya) ..... 123

**Short Communication**
Concentration of exchangeable and soluble aluminium in acid forest soils in Greece
G. Nakos (Athens, Greece) ..... 141

**Book Reviews**
Sampling theory ..... 151
Exotic forests ..... 152
Tree crop physiology ..... 153

### VOL. 26 NO. 3 FEBRUARY 1989

Dispersal of natural regeneration in some Piai-invaded areas of mangrove forests in Sarawak
R.R. Jawa (Selangor, Malaysia) and P.B.L. Srivastava (Boroko, Papua New Guinea) ..... 155

Wood production and structure in laboratory-grown cuttings of *Triplochiton scleroxylon* with changes in light intensity
A.B.I. Igboanugo (Gwynedd, Great Britain) ..... 179
Prescribed fire in Arizona chaparral: effects on stream water quality
E.A. Davis (Tempe, AZ, U.S.A.) ..... 189
Impact of logging equipment on water infiltration capacity at Olmotonyi, Tanzania
R.E.L. Ole-Meiludie and W.L.M. Njau (Morogoro, Tanzania) .....
Provenance evaluation of *Pinus halepensis*, *P. brutia*, and *P. eldarica* in Israel
A. Weinstein (Bet Dagan, Israel) ..... 215
Evaluation of simple competition indices for the prediction of volume increment of young jack pine and trembling aspen trees
A.G. Mugasha (Lushoto, Tanzania) ..... 227

## VOL. 26 NO. 4 MARCH 1989

Mycophagy and spore dispersal by small mammals in Bavarian forests
H. Blaschke and W. Bäumler (München, Federal Republic of Germany) ..... 237
Understory light levels in mature hardwood stands after partial overstory removal
M.W. Jenkins and J.L. Chambers (Baton Rouge, LA, U.S.A.) ..... 247
Biomass relations of shrub components and their generality
R.R. Buech and D.J. Rugg (St. Paul, MN, U.S.A.) ..... 257
Provenance variation in *Eucalyptus urophylla* in Malawi
M.R. Ngulube (Zomba, Malawi) ..... 265
Regression equations to predict fresh weight and three grades of lumber from large mesquite (*Prospopis glandulosa* var. *glandulosa*) in Texas
M.A. El Fadl, S. Gronski, H. Asah, A. Tipton, T.E. Fulbright and P. Felker
(Kingsville, TX, U.S.A.) ..... 275
A density integral approach to estimating stem biomass
B.R. Parresol and C.E. Thomas (New Orleans, LA, U.S.A.) ..... 285

**Short Communications**
Natural variation in fruits of *Uapaca kirkiana* in Zambia
C.K. Mwamba (Kitwe, Zambia) ..... 299
Phenology of *Pinus halepensis* at two sites in Israel
A. Weinstein (Bet Dagan, Israel) ..... 305

**Book Review**
ICRAF - The first decade ..... 311

**Author Index** ..... 313

**Subject Index** ..... 315

**Contents of *Forest Ecology and Management* Volume 26** ..... 318